Rational Tool Implementation Support

Agenda

- Introduction

- Benefits of using Rational tools

- Rational Tool Suite Overview

- ClearCase Overview and Benefits

- ClearQuest Overview and Benefits

- RequisitePro Overview and Benefits

- Training

- Contacts

Introduction

- Rational Software is a full life-cycle software development tool

- The Rational Tool Implementation Support Team will support ClearCase, ClearQuest, and RequisitePro

- The Rational Support team consists of: Jay Niemczyk and Paul Capotosto

- The team's objective is to support 2-3 concurrent projects efforts and will enable approximately 8-10 projects to use Rational Tools by September 2002

Benefits of using Rational Tools

- The Rational Tool Suite supports the entire development lifecycle:
  - Requirements Management
  - Configuration Management
  - Issue/Change Request Tracking
  - Testing suite

- Rational is an integrated CASE tool suite and provides full traceability

- Data and work products will follow a standard format, less time spent sorting out the data and more time spent using it

- Ease of use, knowledge transfer, and faster start-up time, teams do not have to learn new tools on every project

- Rational is an SFA standard

- Rational Tool Support and training is funded through SFA

- Reuse, future projects will have access to efforts completed previously
      - translates into lower costs and faster delivery

Rational Tool Suite

- The following tools will be supported by the Rational Tool Implementation Support Team:

  - ClearCase – configuration management and version control

  - ClearQuest – issue and change request tracking

  - RequisitePro – requirements management

- Other Rational Tools of note:

  - Rose – a use case modeling tool

  - Testing Tools – helps with planning, developing, execution, and analysis of testing

  - Robot – automated testing tool simplifies test execution

ClearCase Overview

- ClearCase is a configuration management system

  - Supports parallel development

  - Views are used to access and change elements

  - Rules control what element a view shows a user

- ClearCase MultiSite supports parallel development across geographically distributed projects

ClearCase Benefits

- Unlimited parallel development

- Unify change management

- Tailor ClearCase as a team grows

- ClearCase is extremely scaleable

- Use labels to create baselines

ClearQuest Overview

- ClearQuest is an issue management tool

- Customizable defect and change tracking system

- Manage enhancement requests, defects, and more

- Shorten the development cycle

- Includes ready-to-use schemas

- ClearQuest allows for Integration

ClearQuest Benefits

- Team benefits of using Rational ClearQuest and an issue management process:
  - Requests are contained in one location
  - Issues can be prioritized, assigned, and reassigned
  - Requests and issues have a consistent look and feel
  - Unresolved issues can be escalated
  - Generate reusable reports

- ClearQuest will allow Modernization Partner standards to be developed:
  - Teams can share the same request/issue database
  - Managers can create reports and charts to track several teams
  - Schemas can still be tailored for specific team needs
  - Create a group responsible for tracking project level issues

RequisitePro Overview

- RequisitePro allows teams to manage all project requirements comprehensively

- RequisitePro combines document-centric and database-centric approaches:

  - The database is integrated with Microsoft Word

  - Create and maintain requirements from Word or the database

  - Organize, prioritize, trace and track changes to requirements

  - Use Word for requirement presentation or reports

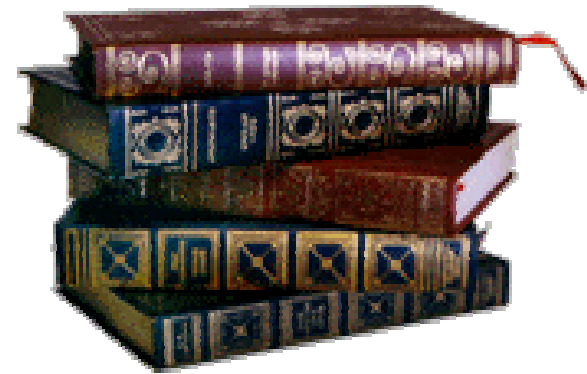- Can be accessed using the client tool or over the web using the web client

RequisitePro Benefits

- Integration with Word lessens the learning curve

- Import legacy requirements easily

- RequisitePro integrates with other Rational tools for full traceability of the development lifecycle

- Short setup time

- Modify requirements via documents or the RequisitePro database

- View, modify, and create hierarchical relationships

- Create traceability links within and across projects

Recommended Training

- ClearCase

  - Admin – one week of vendor training

  - Users – 2 days of vendor training

- ClearQuest

  - Admin – 3 days of vendor training

  - Users – 1 day on-site

- RequisitePro

  - Admin – 1 day of vendor training or CBT

  - Users – brief overview by Admin

Contacts and Next Steps

- **SFA Rational Team**

  - Frank Kidd – Frank.Kidd@ed.gov

  - Samson Abebe – Samsom.Abebe@ed.gov

- **Rational Tool Implementation Support team**

  - Jay Niemczyk – Jason.Niemczyk@ed.gov or 202-962-0757

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- **Contact us if you are interested in Rational or have questions**

Questions???